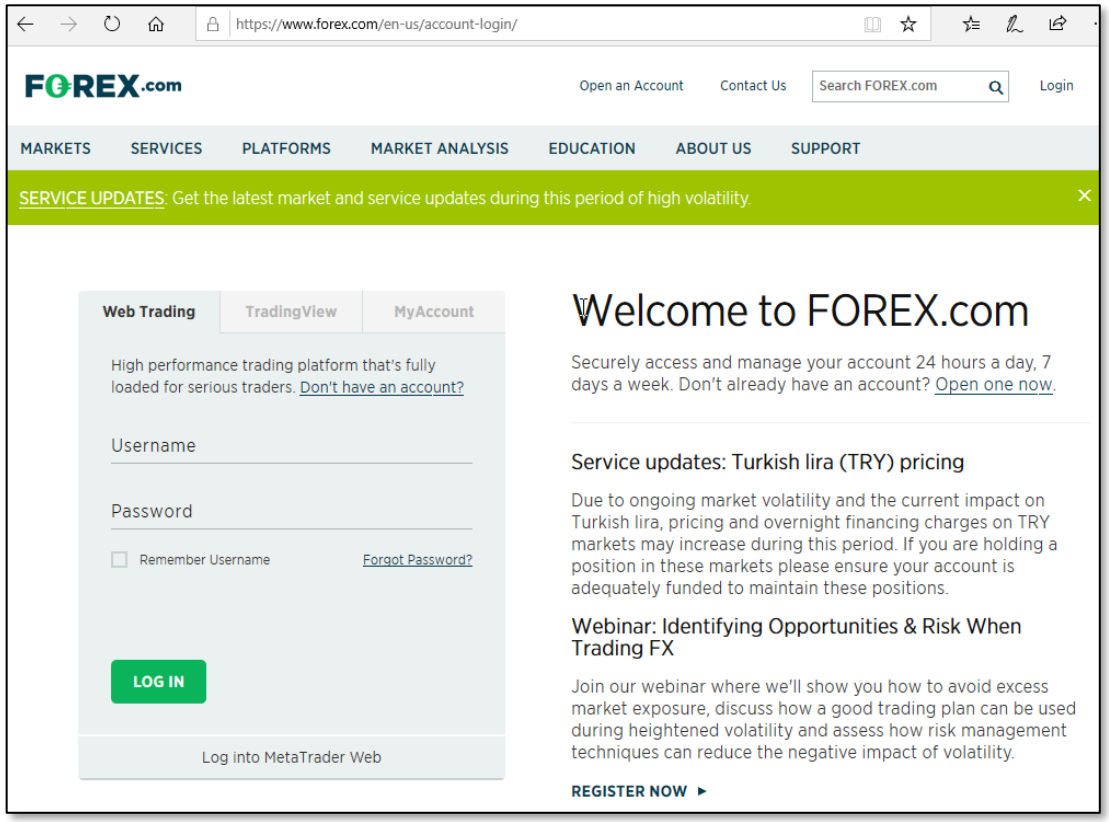
EXHIBIT E

Exhibit E

U.S. Patent 8,392,311

Claim Language	Gain Systems
Claim 1	
1. A method of trading currencies over a computer network connecting a trading system server and at least one trading client system, comprising the steps of:	Defendants' currency trading systems practice this claim. *See* Forex.com: 

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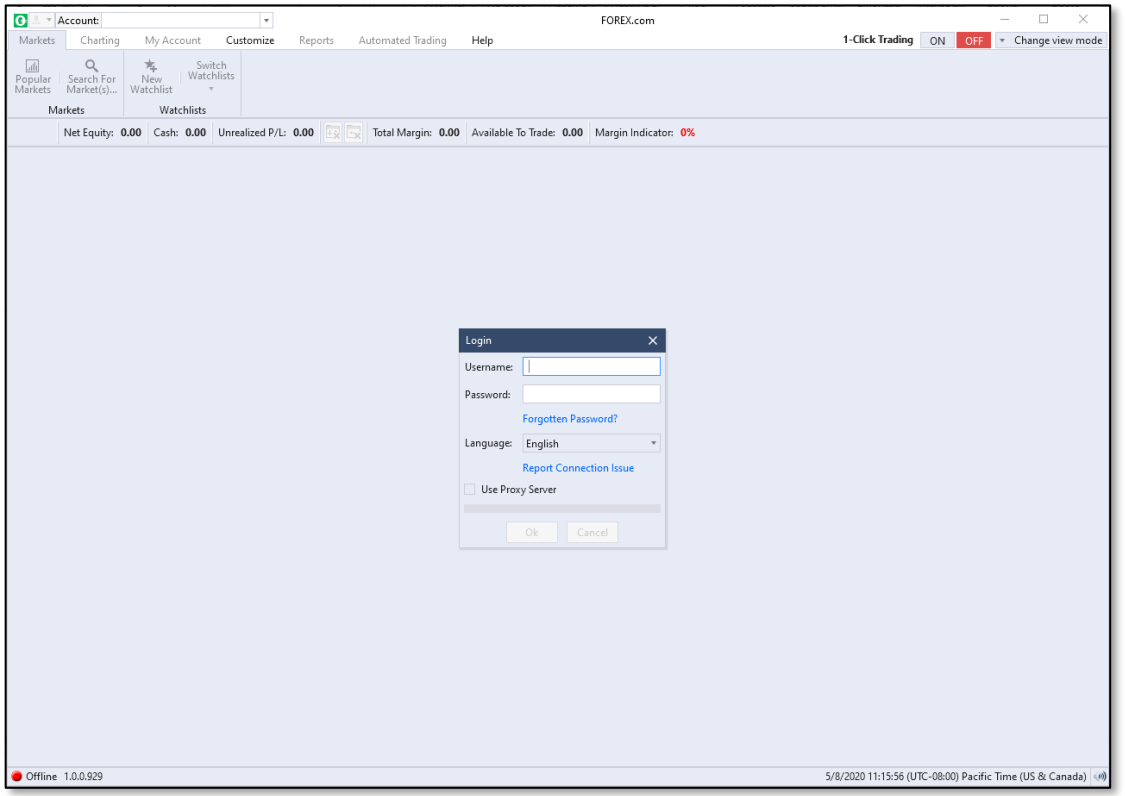
Account:
FOREX.com
Markets
Charting
My Account
Customize
Reports
Automated Trading
Help
1-Click Trading
ON
OFF
Change view mode
Popular Markets
Search For Market(s)...
New Watchlist
Switch Watchlists
Markets
Watchlists
Net Equity: 0.00
Cash: 0.00
Unrealized P/L: 0.00
Total Margin: 0.00
Available To Trade: 0.00
Margin Indicator: 0%
Login
Username:
Password:
Forgotten Password?
Language:
English
Report Connection Issue
Use Proxy Server
Ok
Cancel
Offline 1.0.0.929
5/8/2020 11:15:56 (UTC-08:00) Pacific Time (US & Canada)

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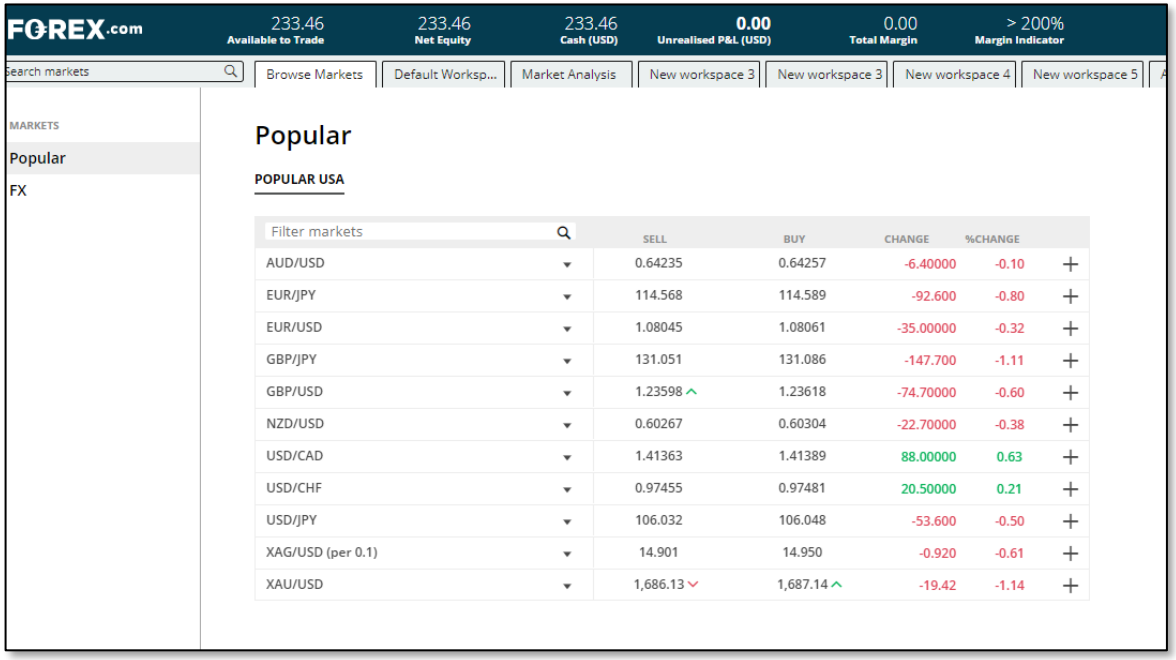
(i) at the trading system server, determining and dynamically maintaining a plurality of current exchange rates, each current exchange rate relating to a pair of currencies and including a first price to buy a first currency of the pair with respect to a second currency of the pair and a second price to sell the first currency of the pair with respect to the second currency of the pair;	*See*: 

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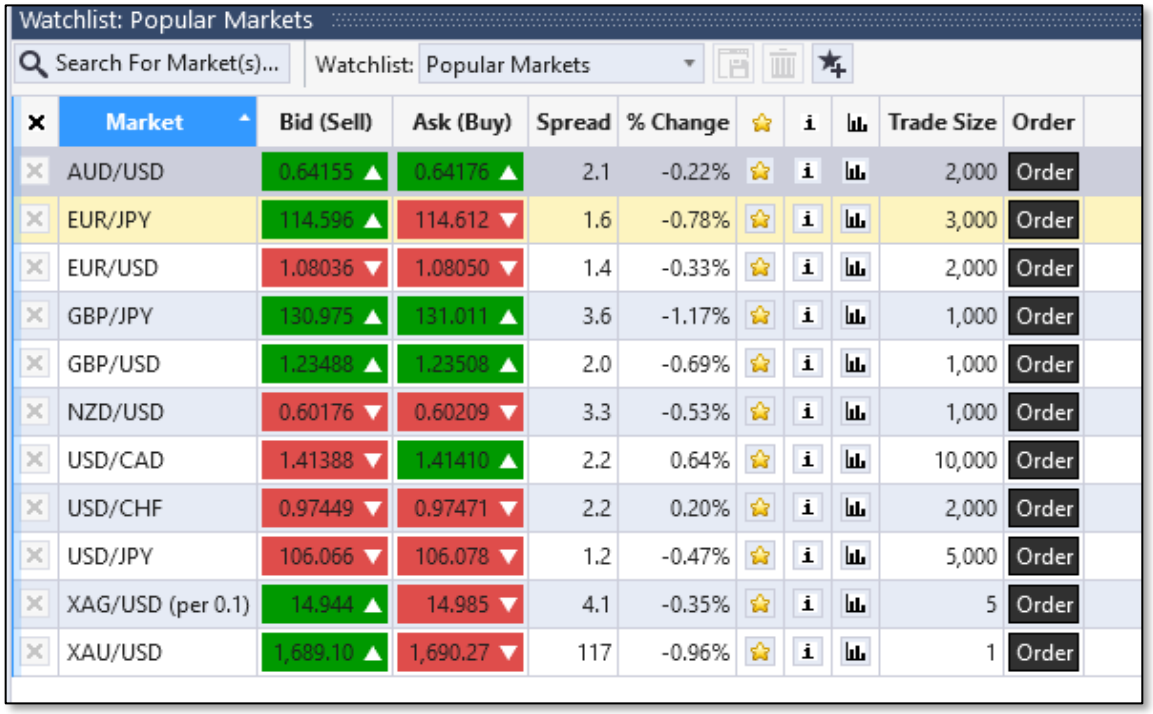

Market	Bid (Sell)	Ask (Buy)	Spread	% Change	Trade Size	Order
AUD/USD	0.64155 ▲	0.64176 ▲	2.1	-0.22%	2,000	Order
EUR/JPY	114.596 ▲	114.612 ▼	1.6	-0.78%	3,000	Order
EUR/USD	1.08036 ▼	1.08050 ▼	1.4	-0.33%	2,000	Order
GBP/JPY	130.975 ▲	131.011 ▲	3.6	-1.17%	1,000	Order
GBP/USD	1.23488 ▲	1.23508 ▲	2.0	-0.69%	1,000	Order
NZD/USD	0.60176 ▼	0.60209 ▼	3.3	-0.53%	1,000	Order
USD/CAD	1.41388 ▼	1.41410 ▲	2.2	0.64%	10,000	Order
USD/CHF	0.97449 ▼	0.97471 ▼	2.2	0.20%	2,000	Order
USD/JPY	106.066 ▼	106.078 ▼	1.2	-0.47%	5,000	Order
XAG/USD (per 0.1)	14.944 ▲	14.985 ▼	4.1	-0.35%	5	Order
XAU/USD	1,689.10 ▲	1,690.27 ▼	117	-0.96%	1	Order

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(ii) transmitting data from the trading system server to a trading client system, the transmitted data representing at least one current exchange rate at the time of the transmission;	*See:*

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FOREX.com
49,935.48
Available to Trade
50,000.54
Net Equity
50,000.00
Cash (USD)
+0.54
Unrealised P&L (USD)
65.06
Total Margin
76,850%
Margin Indicator
+ ADD FUNDS
OFF
1-Click Trading
Popular Markets
AUD/USD
EUR/JPY
EUR/USD
GBP/JPY
GBP/USD
NZD/USD
USD/CAD
USD/CHF
USD/JPY
XAG/USD
XAU/USD
EUR/USD
MARGIN
FINANCING CHARGE 1,2
MINIMUM SPREAD 4,5
0.0001 POINTS
HOURS
DEALING
ORDERS
PREFERENCES
1. Points displayed to 2 decimal places
2. Displayed charges use prevailing prices. These may vary at the time financing is applied
3. Estimated amount for today's financing
4. Spreads may vary according to the underlying market spread, market conditions and liquidity
5. Spreads may widen when the underlying market exchange is closed.
Ver: 2.3.0.773cc42
Compare
Indicators
MID
Sell 1.08445
Buy 1.08458
EUR/USD, 1D
O1.08258 H1.08756 L1.08255 C1.08452 +0.00110 (+0.10%)
realtime
News
Economic Calendar
CHANGE TIME ZONE
LEGEND HIGH MEDIUM LOW
GMT-4 Event
WEDNESDAY, MAY 06
THURSDAY, MAY 07
FRIDAY, MAY 08
SHOW FILTERS
RECENT & NEXT ...
Sep
Oct
Nov
Dec
2020
Feb
Mar
Apr
May

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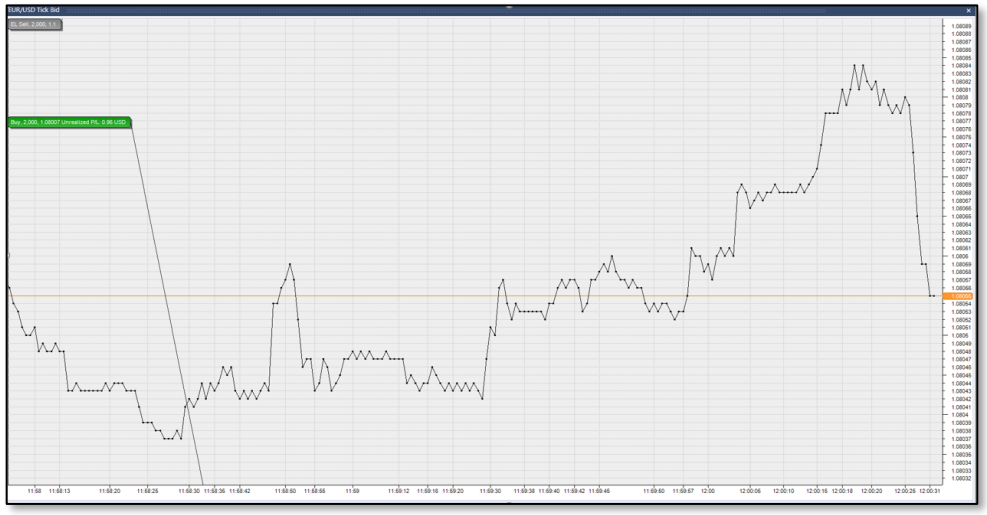

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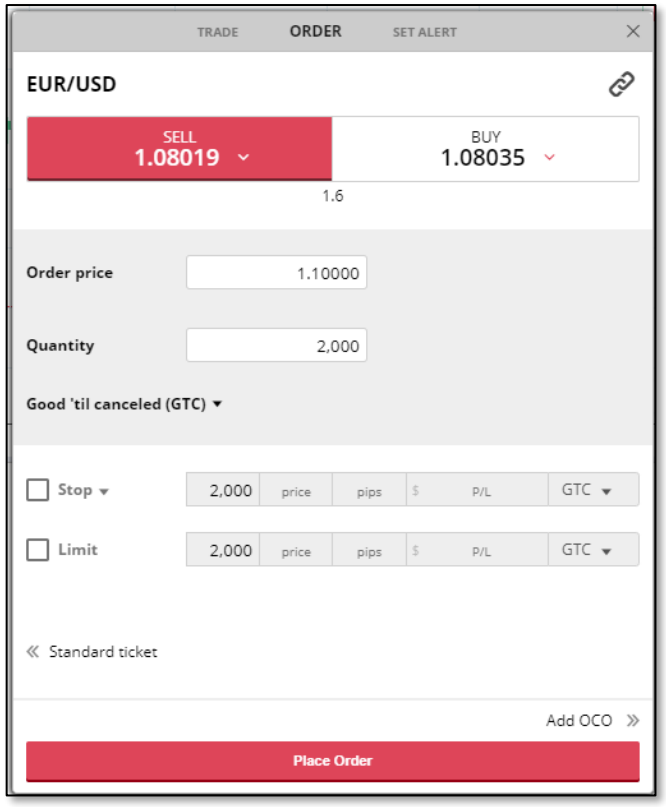
(iii) at the trading client system, displaying the first and second prices for each received current exchange rate to a user;	*See* Claim 1(ii).
(iv) at the trading client system, accepting input from the user identifying a pair of currencies the user desires to trade, an amount of at least one currency of the pair desired to be traded and a requested trade price at which it is desired to effect the trade;	*See:* 

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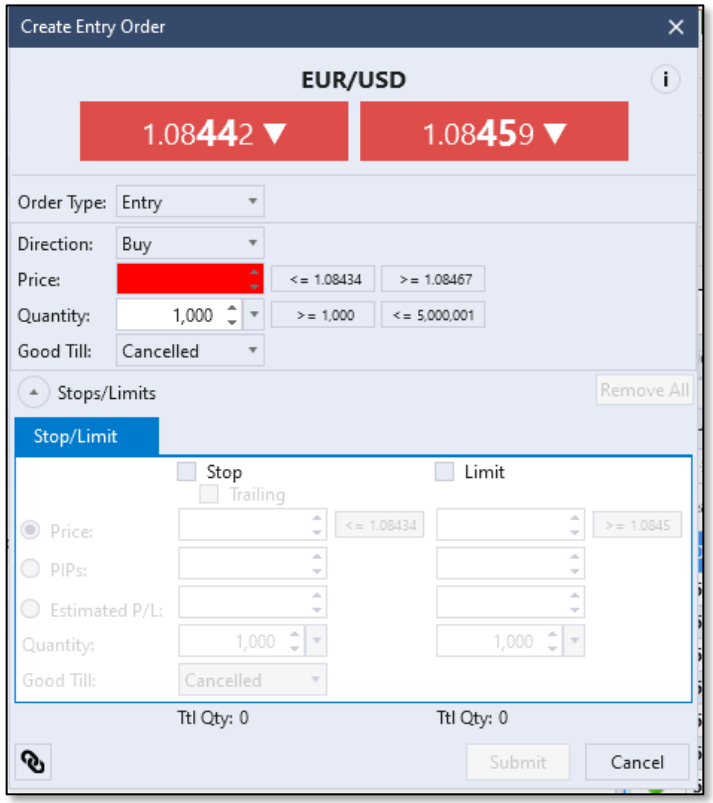
Create Entry Order
EUR/USD
1.08442
1.08459
Order Type: Entry
Direction: Buy
Price:
<= 1.08434
>= 1.08467
Quantity: 1,000
>= 1,000
<= 5,000,001
Good Till: Cancelled
Stops/Limits
Remove All
Stop/Limit
Stop
Trailing
Limit
Price:
<= 1.08434
>= 1.0845
PIPs:
Estimated P/L:
Quantity: 1,000
1,000
Good Till: Cancelled
Ttl Qty: 0
Ttl Qty: 0
Submit
Cancel

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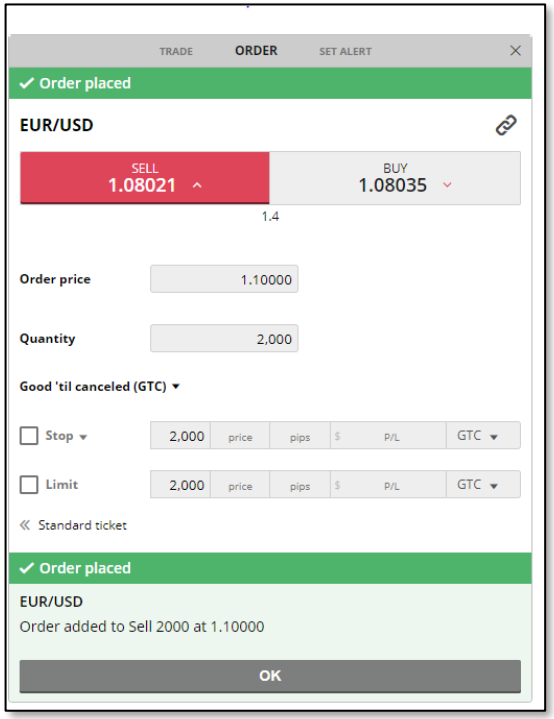
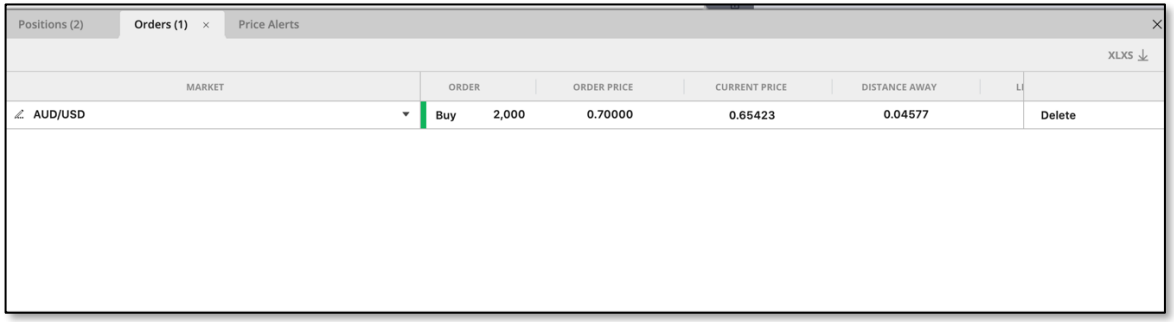
(v) transmitting the accepted input from the trading client system to the trading system server;	*See:*  

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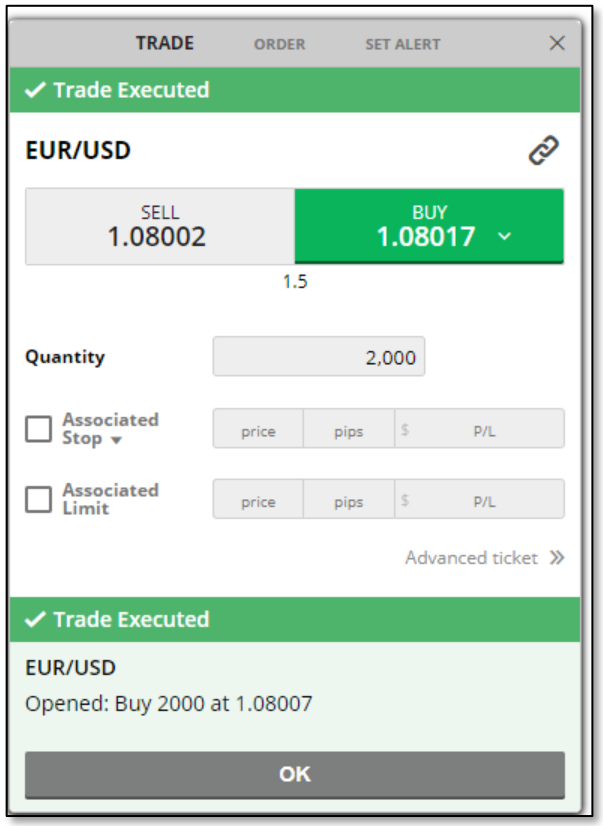
(vi) at the trading system server, comparing the requested trade price to the respective first price or second price of the corresponding current exchange rate at that time and, if the respective first price or second price of the corresponding current exchange rate at that time is equal to or better than the requested trade price, effecting the trade at the corresponding respective current exchange rate first price or second price and if the corresponding current exchange rate is worse than the requested trade price, refusing the trade; and	

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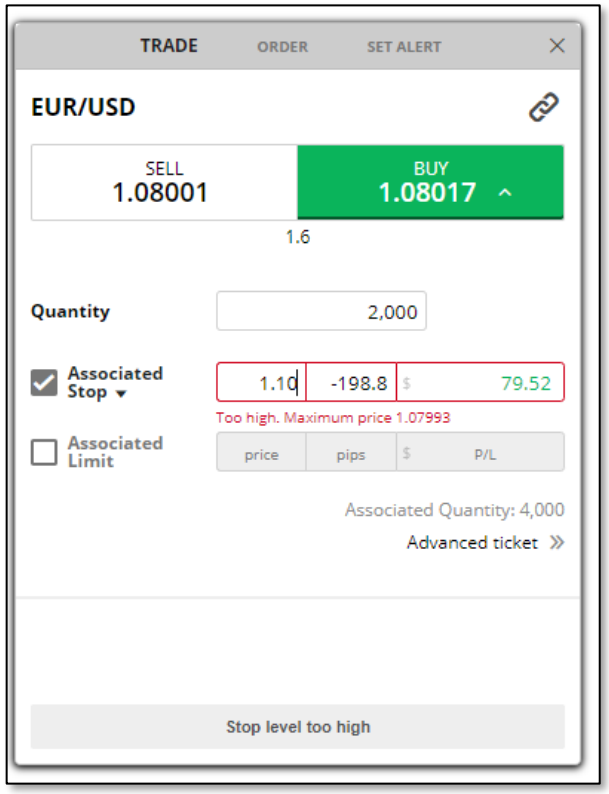
TRADE
ORDER
SET ALERT
EUR/USD
SELL
1.08001
BUY
1.08017
1.6
Quantity
2,000
Associated Stop
1.10
-198.8
$
79.52
Too high. Maximum price 1.07993
Associated Limit
price
pips
$
P/L
Associated Quantity: 4,000
Advanced ticket
Stop level too high

2020-05-06 12:02:30 PM Italy's daily coronavirus death toll and new cases' tally both rise
2020-05-06 12:02:23 PM *TOP NEWS*-Central Banks & Global Economy
2020-05-06 12:02:21 PM *TOP NEWS*-Global Markets
2020-05-06 12:00:32 PM *TOP NEWS*-World News
2020-05-06 11:58:18 AM REFILE-UPDATE 2-Sterling hits 12-day low versus dollar
2020-05-06 11:57:47 AM UPDATE 1-Natixis swings to a loss, hikes provisions on coronavirus, frauds
2020-05-06 11:55:51 AM BUZZ-COMMENT-Yen gains counter upbeat risk, AUD/USD rally struggles
2020-05-06 11:55:43 AM WRAPUP 2-U.S. private payrolls dive by a record 20.2 million
News
Economic Calendar
New trade: Market AUD/USD, BUY, 0.64149, Quantity 2,000, Order ID [redacted]

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	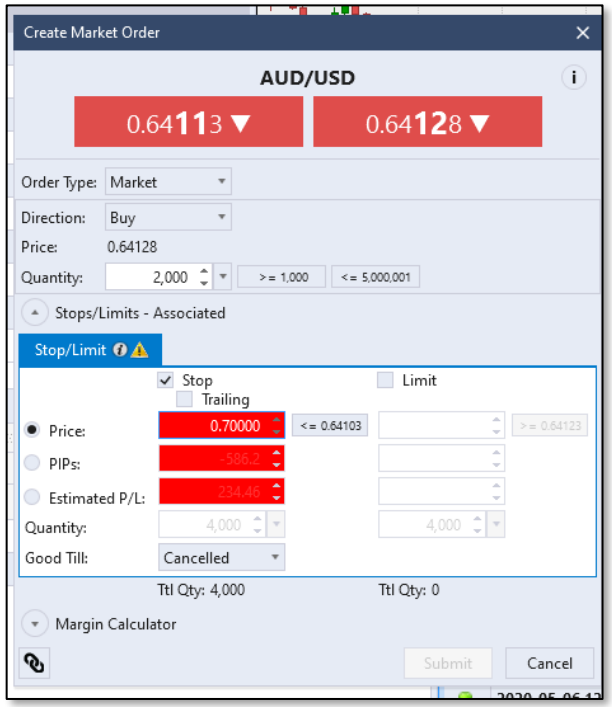
(vii) transmitting from the trading system server to the trading client system an indication of whether the trade was refused or transacted and, if transacted, an indication of the price the trade was transacted at.	*See* above claim elements.

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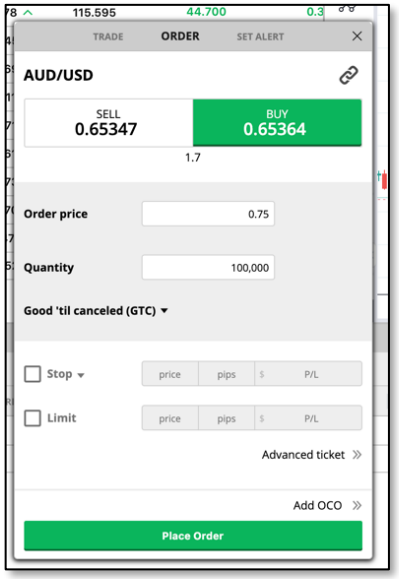
Claim 2	
2. The method of claim 1 wherein the requested trade price is derived from a respective one of the first price or second price of the received current exchange rate and a user input limit value defining a maximum acceptable difference between the respective one of the first price or second price of the received current exchange rate received at the trading client system and the respective one of the first price or second price of the corresponding current exchange rate determined at the trading client system at which the trade can be effected.	*See* Claim 1. *See also*: 

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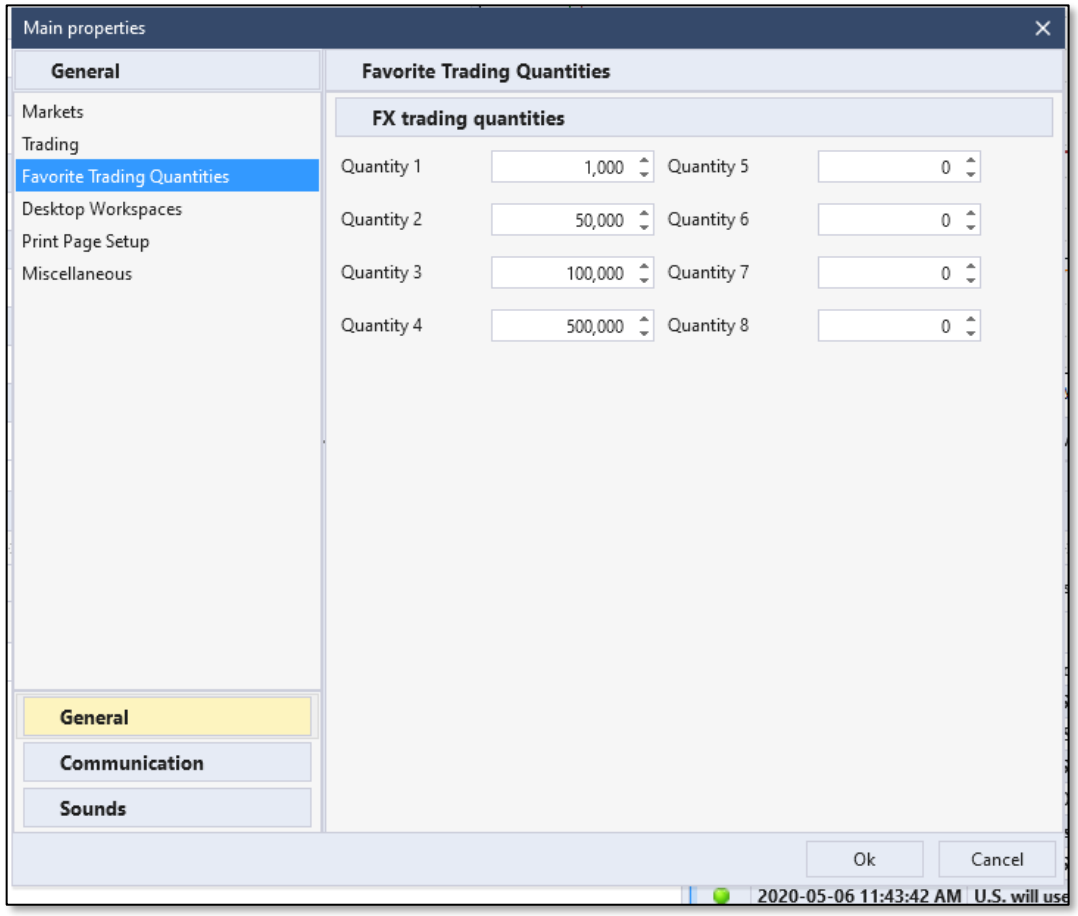

See also: https://www.forex.com/en-us/education/education-themes/forex-platform-tutorials/us-advanced-trading-platform-customization/ (accessed May 8, 2020)

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Claim 3	
3. The method of claim 2 wherein the user can input a first limit value to define a maximum acceptable difference between the first price of the current exchange rate received at the trading client system and the first price of the corresponding current exchange rate determined at the trading client system and can input a second limit value to define a maximum acceptable difference between the second price of the current exchange rate received at the trading system and the second price of the corresponding current exchange rate determined at the trading client system and the requested trade price is derived from the first price or second price of the current exchange rate received at the trading client system and the corresponding one of the first limit value and second limit value.	*See* Claim 2.
Claim 4	
4. The method of claim 2 wherein step (iv) comprises the steps of:	*See* Claim 2.
(a) the user selecting one of the first price and second price of the current	*See* Claim 2.

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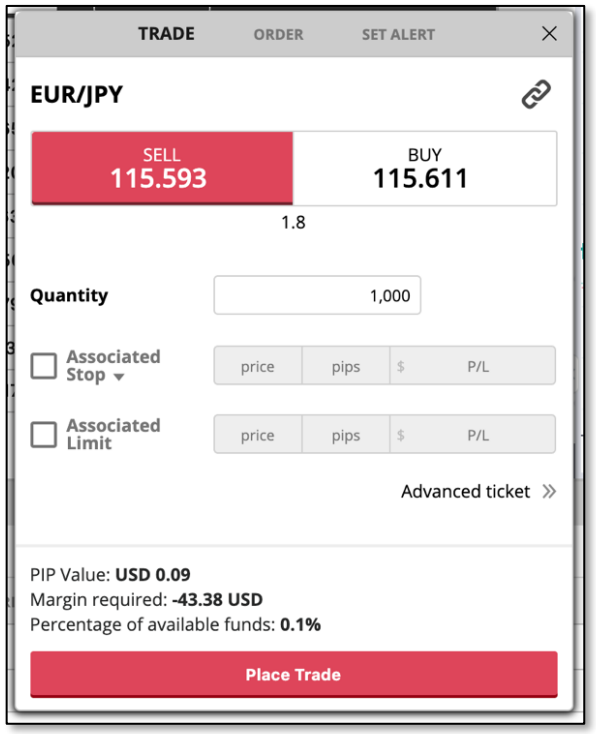
exchange rate displayed at the trading client system;	
(b) displaying to the user a set of input fields to define a desired trade, the input fields including an identification of the pair of currencies the user desires to trade, the amount of the currencies desired to be traded, the selected first price or second price of the current exchange rate received at the trading client system and a limit value, and where the input fields to identify the pair of currencies and the first price or second price are populated with appropriate values determined from the user's selection of the one of the first price or second price;	*See*: 

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	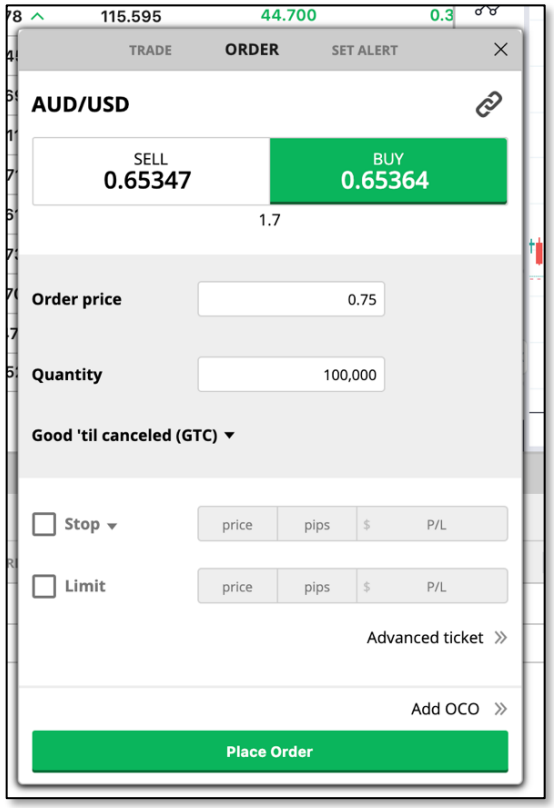
(c) receiving from the user input to the input field defining the desired amount of currency to be traded; and	*See* above. *See also:*

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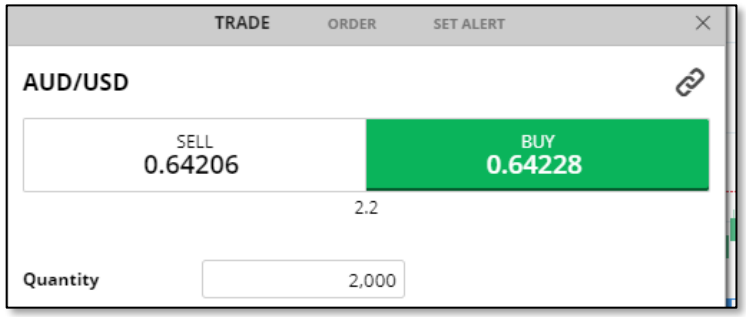
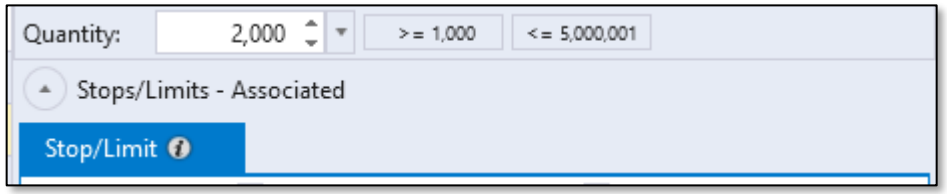
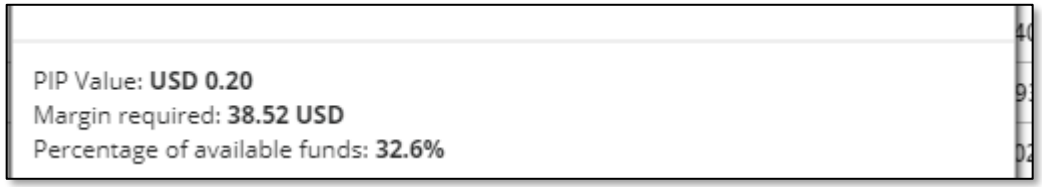
	 
(d) determining the requested trade price from the selected one of the first price and second price and the limit value.	*See* above. *See also*: 
Claim 5	
5. The method of claim 4 wherein in step (b) the displayed set of input fields includes: a first limit value to define a maximum acceptable difference between the first price of the current exchange rate received at the trading client system and the first price of the	*See* above. *See also:*

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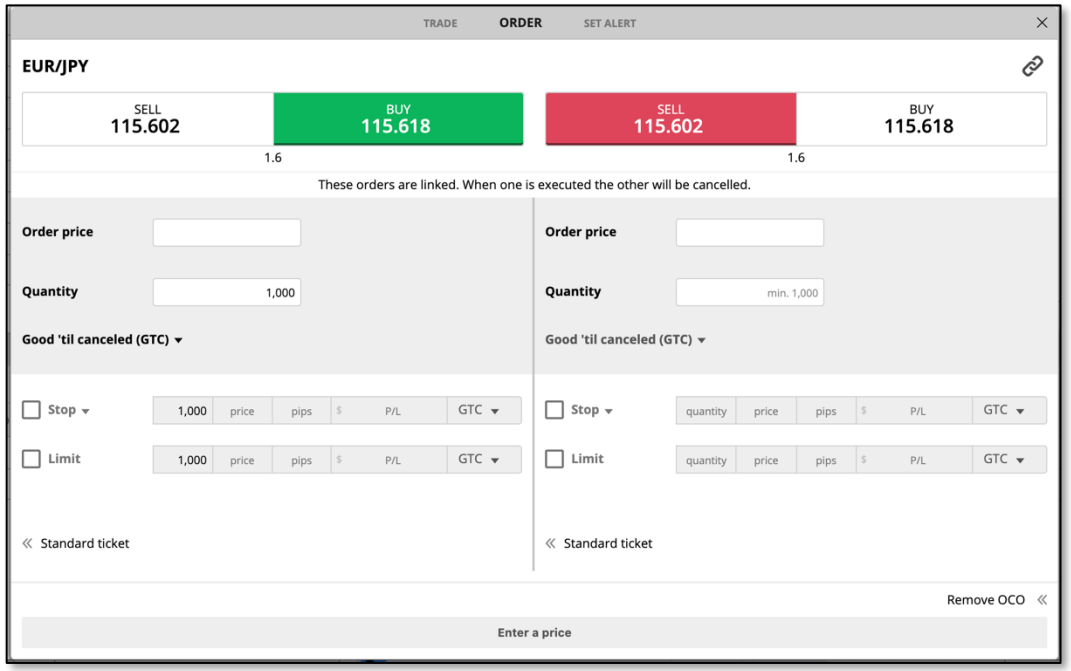
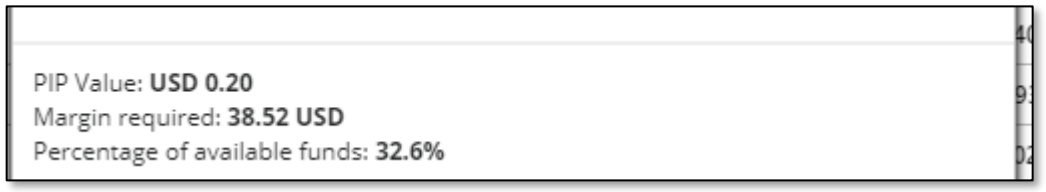
corresponding current exchange rate determined at the trading client system; and a second limit value to define a maximum acceptable difference between the second price of the current exchange rate received at the trading system and the second price of the corresponding current exchange rate determined at the trading client system and in step (d) the requested trade price is derived from the selected first price or second price and the corresponding one of the first limit value and second limit value.	 

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	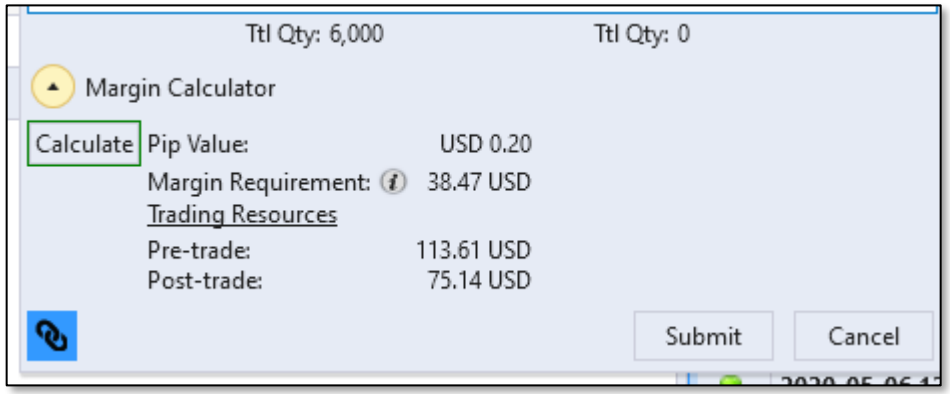
Claim 6	
6. The method of claim 2 wherein, when the limit value is zero, the requested trade price is the current corresponding first price or second price of the current exchange rate at the trading server.	*See generally,* Claim 1.
Claim 7	
7. A method of trading currencies over a computer network connecting a trading system server and at least one trading client system, comprising the steps of:	*See* Claim 1.
(i) at the trading system server, determining and dynamically maintaining a plurality of current exchange rates, each current exchange rate relating to a	*See* Claim 1(i).

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pair of currencies and including a first price to buy a first currency of the pair with respect to a second currency of the pair and a second price to sell the first currency of the pair with respect to the second currency of the pair;	
(ii) transmitting data from the trading system server to a trading client system, the transmitted data representing at least one current exchange rate at the time of the transmission;	*See* Claim 1(ii).
(iii) receiving at the trading system server input from a user of the trading client system identifying a pair of currencies the user desires to trade, an amount of at least one currency of the pair desired to be traded and a requested trade price at which it is desired to effect the trade;	*See* Claim 1(iii-iv). *See also*:

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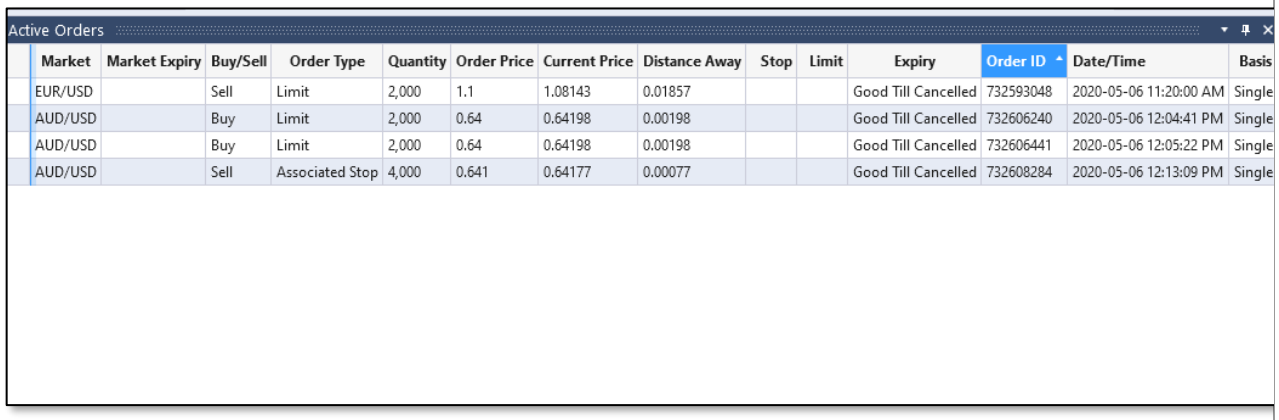

Market	Market Expiry	Buy/Sell	Order Type	Quantity	Order Price	Current Price	Distance Away	Stop	Limit	Expiry	Order ID	Date/Time	Basis
EUR/USD		Sell	Limit	2,000	1.1	1.08143	0.01857			Good Till Cancelled	732593048	2020-05-06 11:20:00 AM	Single
AUD/USD		Buy	Limit	2,000	0.64	0.64198	0.00198			Good Till Cancelled	732606240	2020-05-06 12:04:41 PM	Single
AUD/USD		Buy	Limit	2,000	0.64	0.64198	0.00198			Good Till Cancelled	732606441	2020-05-06 12:05:22 PM	Single
AUD/USD		Sell	Associated Stop	4,000	0.641	0.64177	0.00077			Good Till Cancelled	732608284	2020-05-06 12:13:09 PM	Single

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(iv) at the trading system server, comparing the requested trade price to the respective first price or second price of the corresponding current exchange rate at that time and, if the respective first price or second price of the corresponding current exchange rate at that time is equal to or better than the requested trade price, effecting the trade at the corresponding respective current exchange rate first price or second price and if the corresponding current exchange rate is worse than the requested trade price, refusing the trade; and	*See* above. *See also* Claim 1(iv-v).
(v) transmitting from the trading system server to the trading client system an indication of whether the trade was refused or transacted and, if transacted, an indication of the price the trade was transacted at.	*See* above. *See also* Claim 1(v-vii).